NHDOT SPR2 PROGRAM RESEARCH PROGRESS REPORT

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a progress report at least every three months during the project duration. Reports are due the 5th of the month following the end of the quarter. Please provide a project update even if no work was done during this reporting period.

Project#		Report Period Year: 2017		
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26962J		☑Q1 (Jan-Mar) ☐Q2 (Apr-Jun) ☐Q3 (Jul-Sep) ☐Q4 (Oct-Dec)		
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Project Title:				
UAS and Transportation Projects				
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Project Investigator: Jarlath O'Neil-Dunne				
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Phone:802-656-3324		E-mail: joneildu@uvm.edu		
Research Start Date:	Research End Date:	Project schedule status:		
December 1, 2016	September 30, 2019	☐ On schedule ☐ Ahead of schedule ☒ Behind schedule		

Brief Project Description:

The overall objective of this project is to evaluate UAS technology for a broad range of case studies relating to the specific needs of the New Hampshire Department of Transportation NH DOT). Specifically, this project seeks to:

- 1. Determine the types of transportation projects for which UAS are best suited for.
- 2. Evaluate the capabilities and limitations, along with the costs and benefits, of using UAS technology for a variety of transportation projects.
- 3. Outline the policies, procedures, staffing, and information technology infrastructure required for NH DOT to fully implement UAS technology.
- 4. Develop NH DOT's UAS capabilities.

Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

- UAS presentation at the NH DOT Winter Technical Meeting.
- Established a stakeholder advisory committee (Task 1).
- UAS mission planning profiles (Task 3).
- Generate UAS products (Task 5).

Provide UAS products to NH DOT (Task 6).

Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc...):

Participation in case studies.

Anticipated research next 3 months:

- UAS mission planning profiles (Task 3).
- UAS operations (Task 4).
- Generate UAS products (Task 5).
- Provide UAS products to NH DOT (Task 6).

Circumstances affecting project: Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and budget, along with recommended solutions to those problems.

The original project work plan assumed an October 1, 2016 start date. Project was not officially approved until December 21, 2016. The approval date, combined with the holiday season, resulted in a delayed start. Weather conditions, principally the presence of snow on the ground and extensive periods of rain and wind, during Q1 2017 prevented any flights from occurring. Giving the extensive time reserved for UAS operations we are not concerned about being slightly behind schedule at this stage and fully anticipate being caught up by Q2 2017.

NHDOT SPR2 Quarterly Reporting

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Tasks (from Work Plan)	Planned % Complete	Actual % Complete
Task 1: Establish a stakeholder advisory committee	100%	100%
Task 2: UAS Case Studies	100%	90%
Task 3: UAS Mission Planning Profiles	100%	90%
Task 4: UAS Operations	10%	0%
Task 5: UAS Products	5%	0%
Task 6: Provide UAS Products to NH DOT	0%	0%
Task 7: Implementation Assessment	0%	0%
Task 8: Reporting	0%	0%